

**Project No. 3074**

**File: 3074.4**

**OCTOBER MONTHLY PROGRESS REPORT  
MONTANA DOT "PERFORMANCE PREDICTION MODELS"**

<b>Monthly Progress</b>	<b>Susan Sillick, MT DOT</b>
<b>Report To:</b>	<b>Jon Watson, MT DOT</b>
<b>Agency:</b>	<b>Fugro-BRE</b>
<b>Contract No.:</b>	<b>HWY-30604-DT</b>
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**1.0 CURRENT MONTH WORK ACTIVITIES AND ACCOMPLISHMENTS**

**Task 1 – Literature Review**

A draft memorandum was prepared and submitted to the Department in October 2001 that summarizes the models to be considered within this project. This memorandum will be updated when the calibration and validation of the 2002 Design Guide distress prediction models is complete.

**Task 2 – Review of MT DOT Pavement-Related Data**

This task is complete. However, Fugro-BRE will continue to monitor the LTPP database and update any missing data on the test sections with time.

**Task 3 – Establish the Experimental Factorials**

A draft experimental factorial and sampling/testing plan was provided to the Department in October 2001. This experimental factorial identified all sites included in the monitoring program: existing LTPP sites in Montana and in adjacent States, as well as the test sections that will be added to the program this year.

**Task 4 – Develop Work Plan for the Monitoring and Testing Plans**

A draft of the monitoring and testing work plan was completed and submitted for review to the Department in October 2001. The monitoring and testing work plan will be revised early next year after an initial analysis of the data is completed under Task 7.

**Task 5 – Presentation of Work Plan to MT DOT**

The Fugro-BRE team presented the results completed to-date under Phase I. The Phase I meeting was held October 2, 2001.

**Task 6 – Implement Work Plan – Data Collection**

The Fugro-BRE team began the field test and sampling plan for the materials and soils in the non-LTPP sites. All sites were marked and a preliminary distress map was prepared for each

additional test section. Photographs of each site were taken during the initial visit. The project team coordinated with Department personnel to sample each of the test sections, conduct deflection basin tests, and make profile measurements. Fugro-BRE is in the process of reviewing the deflection basin data.

#### **Task 7 – Data Analyses and Calibration of Performance Prediction Models**

No activity.

#### **Task 8 – Final Report and Presentation of Results**

No activity.

### **2.0 PROBLEMS/RECOMMENDED SOLUTIONS**

No problems were encountered during last month and none are anticipated for next month.

### **3.0 NEXT MONTH'S WORK PLAN**

The activities planned for next month are identified and discussed below.

- Begin an initial analysis of all data collected at the LTPP and non-LTPP test sections.
- Coordinate with Department personnel on an as-needed basis.

### **4.0 FINANCIAL STATUS**

Following is a summary of the estimated expenses incurred during the month of October. Accumulated expenses for the project, estimated through the end of the month are represented graphically in the attached line chart.

Cost Element	Previous Month's Cumulative Cost, \$	Current Monthly Expenditures (Estimated), \$	Cumulative Costs (Estimated), \$
Direct Labor	8,943	2,129	11,072
Overhead	12,789	3,044	15,833
Consultants/Subcontractors	4,050	0	4,050
Travel	3,253	1,328	4,580
Testing	0	0	0
Other Direct Costs	52	61	114
Fee	2,909	656	3,565
<b>Total Costs</b>	<b>31,996</b>	<b>7,218</b>	<b>39,214</b>

The following table provides a summary of the total expenditures by the Montana and FHWA fiscal years in comparison to the allocated funds for each fiscal year.

Montana DOT Fiscal Year				FHWA Fiscal Year			
Fiscal Year		Allocated Funds Cumulative, \$	Expenditures Cumulative, \$	Fiscal Year		Allocated Funds Cumulative, \$	Expenditures Cumulative, \$
6/1-6/30	2001	15,000	0*	6/1-9/30	2001	65,000	31,996**
7/1-6/30	2002	218,969	39,214	10/1-9/30	2002	258,969	7,218
7/1-6/30	2003	348,969	---	10/1-9/30	2003	358,969	---
7/1-6/30	2004	388,969	---	10/1-9/30	2004	398,969	---
7/1-6/30	2005	428,969	---	10/1-9/30	2005	438,969	---
7/1-6/30	2006	498,969	---	10/1-9/30	2006	498,969	---
TOTAL		498,969	39,214			498,969	39,214

\*June 2001 expenditures were combined with July 2001 expenditures.

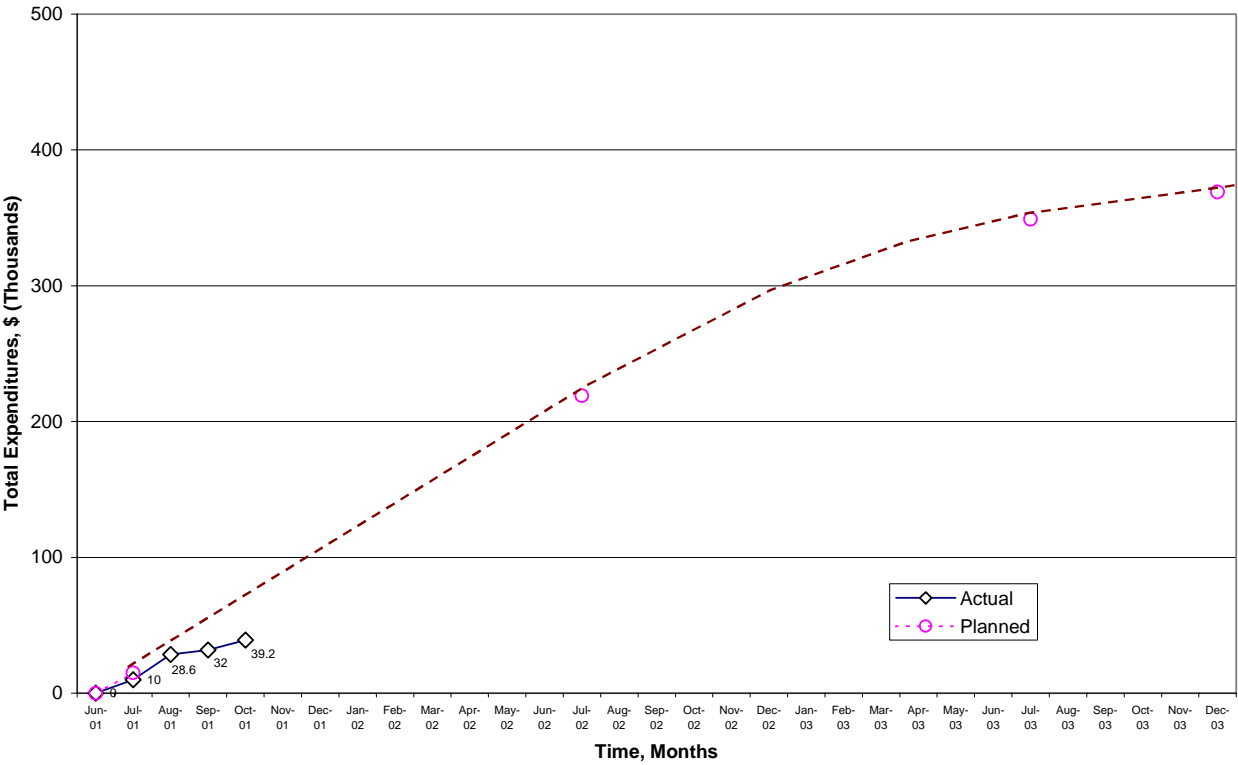
\*\*Parson Brinckerhoff invoices have not yet been received for work completed during the FHWA fiscal period: June 1, 2000 to September 30, 2001.

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Monthly Progress Report - Financial Status

Contractor: Fugro-BRE  
Montana DOT: "Performance Prediction Models"  
Fugro-BRE Project No.: 3074

Contract No.: HWY-30604-DT



### Potential CTB LTTP Sites

Location Name	Mark Date	Type	Road Name	Project Reference Post		Approx. Pavement Age, Years	Notes:
				Begin	End		
Beck Hill/Deerlodge	10/08/01	Pulverized	I-90	180.4	188.6	>1	
Perma County N	10/08/01	In-Place	S-382	6.3	17.7	5	
Condon N	10/08/01	Pulverized	P-83	31.4	47.7	5	
Silver City W	10/08/01	Pulverized	S-279	8.8	16.4	2	
Geyser E	10/09/01	In-Place	P-57	21.7	27.5	1	
Fort Belknap	10/09/01	New	P-1	430	446.3	10	
Wolf Point S	10/09/01	New	P-25	36.12	45.9	6	Use either one, but not both: Wolf Point or Vida – will be determined on 10/09/01 during site visit.
Vida N & S	10/09/01	New	P-25	27.78	36.12	6	Use either one, but not both: Wolf Point or Vida – will be determined on 10/09/01 during site visit.
Hammond NW	10/10/01	In-Place	N-23/P-23	92.3	108.5	7	
Lavinia W	10/10/01	New	N/P-14	137.5	142.2	10	
Roundup E	10/10/01	New	N/P-14	169.5	181.5	1	
East Helena E	10/10/01	Pulverized	P-8	49.86	53	2	Additional base material possibly added to level.

Locations are in order per the date they will be marked.